



March 3, 2018

Michael Mikaitis
Aldridge Electric, Inc.
844 E Rockland Rd.
Libertyville, IL 60048

RE: 400-479 N. McClurg Ct. Thorium Monitoring 2/26/18 – 2/27/18
CDOT Permit #903944

Dear Mr. Mikaitis:

Stan A. Huber Consultants, Inc (SAHCI) was hired by your firm to provide radiation monitoring during the excavation and installation of street lighting at 400-479 N. McClurg Ct. in Chicago, Illinois. The monitoring was performed by Brian Schmidt, SAHCI Health Physics Technician, on February 26 and 27, 2018.

Instrumentation

Surface gamma scans were performed using a Ludlum Model 2221 Scaler / Ratemeter (serial no. 126496) with attached Ludlum Model 44-10 2"x2" NaI detector (w/ 6" collimated lead shield). The instrument was calibrated on October 11, 2017. The USEPA action level of 7.1 picocuries per gram (pCi/g) total thorium for this instrument is 7,366 counts per minute (cpm).

The background count rate for this location was found to average 1,833 cpm.

Soil Gamma Scans

Survey data was collected on by scanning the spoils generated at the 4 light pole locations and recording the highest count rate at each 18-inch interval. The maximum depth of the light pole excavations was 6 feet below ground surface. Directional boring was used to connect the different light poles. No spoils were generated during the direction boring process.

The maximum gamma count rate for each excavation interval was recorded on the attached Radiation Survey Form. The count rates in the excavations ranged from 1,700 cpm to 3,900 cpm. No count rates were found at any time that exceeded the threshold limit of 7,366 cpm.

Additional Monitoring

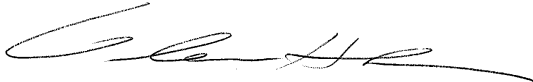
Since no count rates were identified above the 7.1 pCi/gram threshold limit, no additional soil sampling, air monitoring, or personnel monitoring were performed.

Regulatory Notification of Survey Completion

I will be providing a copy of this report to both the City of Chicago Department of Public Health and US Environmental Protection Agency, as required.

Thank you for your assistance with this project. If you have any questions or need additional information, please call me at (815) 485-6161.

Sincerely,
Stan A. Huber Consultants, Inc.

A handwritten signature in black ink, appearing to read 'Glenn Huber', written in a cursive style.

Glenn Huber, CHP
President

Radiation Survey Form

Location/ Project ID: ALDRIDGE - STREET LIGHT INSTALLATION - McCWAGET. - CHICAGO, IL - ROW
RAG SWAGY

Date: 2/26-27/2018

Technician: BRIAN SCHMIOT

Inst Model: LVOLUN-2221

Serial No.: 126496

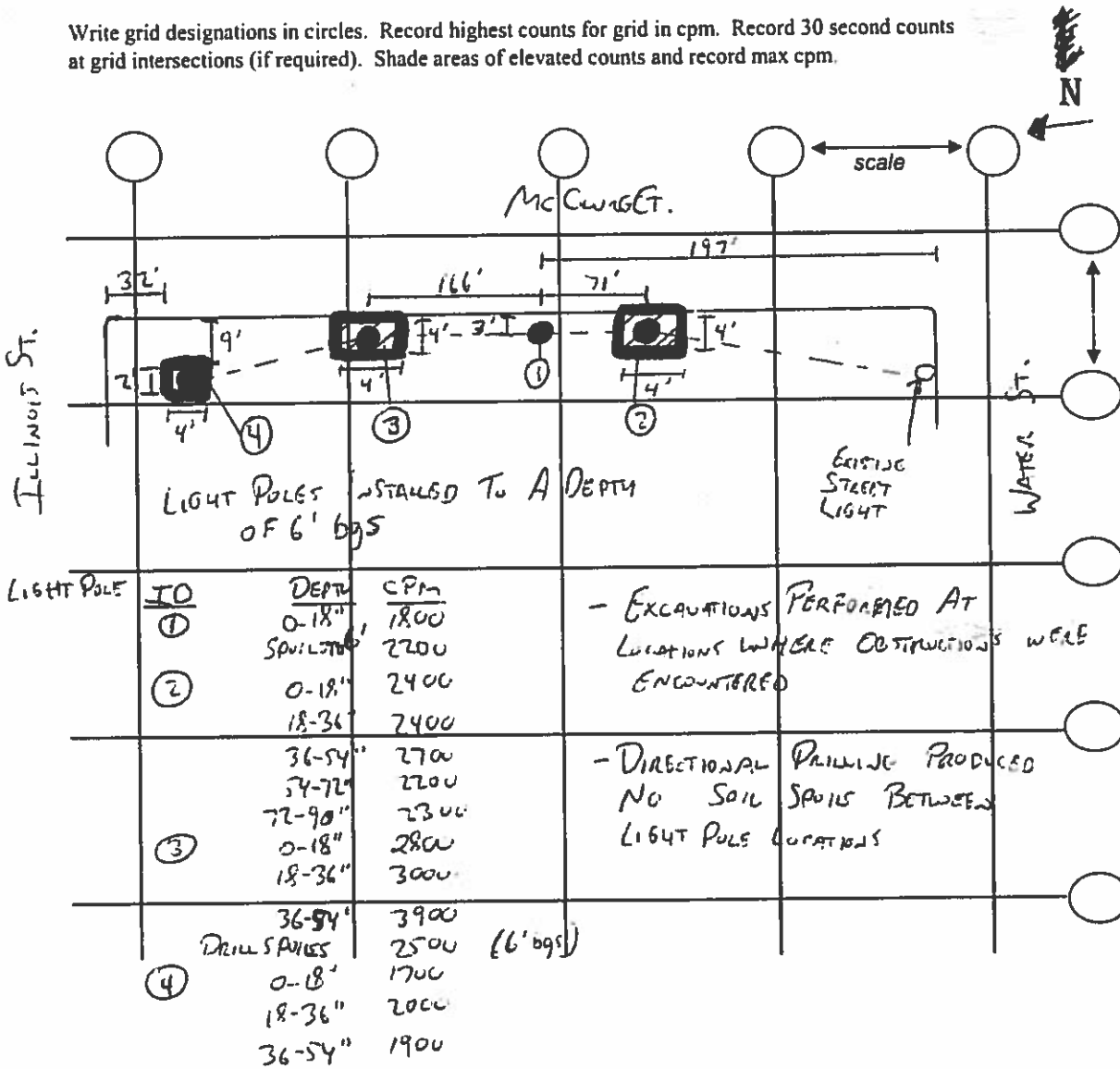
Probe Type: 1"x1" NaI / 2"x2" NaI
Shielded / Not Shielded

Lift Elevation: 0-72"

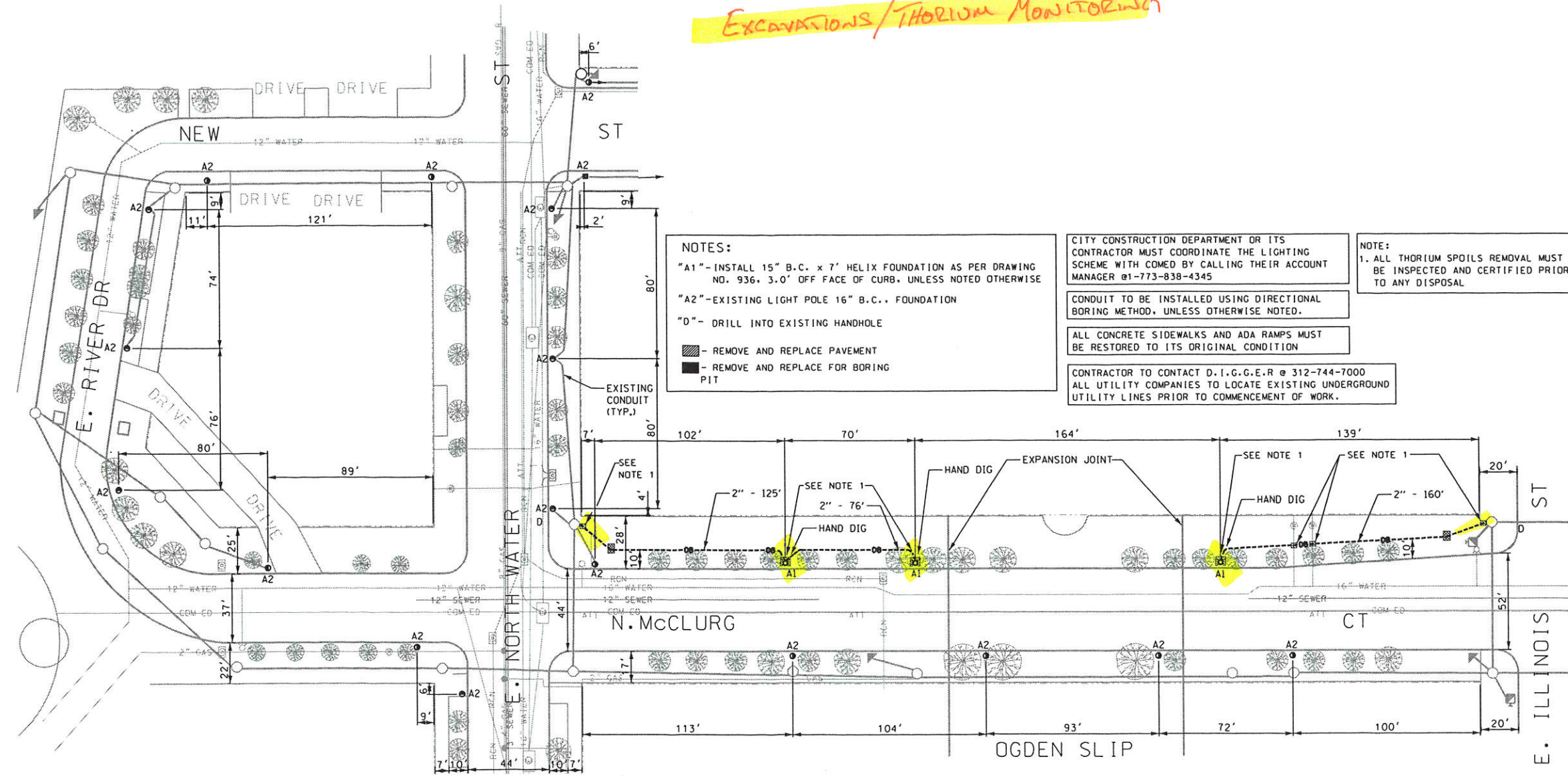
Background 1833 cpm

Action Level: 7366 cpm

Write grid designations in circles. Record highest counts for grid in cpm. Record 30 second counts at grid intersections (if required). Shade areas of elevated counts and record max cpm.



Excavations / THORIUM MONITORING



NOTES:
 "A1" - INSTALL 15" B.C. x 7' HELIX FOUNDATION AS PER DRAWING NO. 936. 3.0' OFF FACE OF CURB, UNLESS NOTED OTHERWISE
 "A2" - EXISTING LIGHT POLE 16" B.C., FOUNDATION
 "D" - DRILL INTO EXISTING HANDHOLE
 [Symbol] - REMOVE AND REPLACE PAVEMENT
 [Symbol] - REMOVE AND REPLACE FOR BORING PIT

CITY CONSTRUCTION DEPARTMENT OR ITS CONTRACTOR MUST COORDINATE THE LIGHTING SCHEME WITH COMED BY CALLING THEIR ACCOUNT MANAGER @ 1-773-838-4345

CONDUIT TO BE INSTALLED USING DIRECTIONAL BORING METHOD, UNLESS OTHERWISE NOTED.

ALL CONCRETE SIDEWALKS AND ADA RAMP MUST BE RESTORED TO ITS ORIGINAL CONDITION

CONTRACTOR TO CONTACT D.I.G.G.E.R @ 312-744-7000 ALL UTILITY COMPANIES TO LOCATE EXISTING UNDERGROUND UTILITY LINES PRIOR TO COMMENCEMENT OF WORK.

NOTE:
 1. ALL THORIUM SPOILS REMOVAL MUST BE INSPECTED AND CERTIFIED PRIOR TO ANY DISPOSAL

A	DATE	REVISION
WORK ORDER NO. 11664254		
COST ALLOCATION ACCOUNT		
APPROPRIATION ACCOUNT MATERIAL LABOR		
ARTERIAL STREET LIGHTING UNDERGROUND CONDUIT FACILITIES N. MCCLURG CT., E. RIVER DR. TO E. ILLINOIS ST., E. NORTH WATER ST., N. MCCLURG CT. TO N. NEW ST.		
CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING		
DRAFTSMAN/ENGINEER :	B. NAIR	DWG. NO. 17-039
SUP. ENGINEER/PM :	O. LETAMENDI	
PROFESSIONAL ENGINEER :	R. PATEL	
ENGINEER OF ELECTRICITY :		
DEPUTY COMMISSIONER :		
ATLAS# Q-21 & R-21		DATE: 03-10-2017